

Steve Harding

From: ILYA FLEISHMAN <iif1@msn.com>
Sent: Monday, March 27, 2017 11:41 AM
To: matthew.sturgis@capeelizabeth.org; Steve Harding
Cc: Shoener, Kurt
Subject: Fw: Kettle Cove Rd Embankment
Attachments: revetment plan.jpg; revetment section.jpg

Categories: Important

Dear Mr. Sturgis and Mr. Harding,

I have been involved with an informal neighborhood group concerned about State and Local government actions and inactions in the Kettle Cove Rd. area.

Last fall, John LoBosco and I met with Manger Kurt Schoener and Biologist Joe Wiley to discuss and devise a land management plan for Crescent Beach State park that would suppress tree growth from the thicket between Kettle Cove Rd. and the State Park day use area tom maintain NECRabbit habitat and preserve the view shed. We look forward to that plan being implemented as discussed.

Also last fall, I circulated a design proposal to the group based on interest expressed by the Town and State on repairing or replacing the cribbing bulkhead and rip-rapped shoreline along Kettle Cove Rd. with a revetment. Attached is this proposal with the forwarded letter to the neighbors.

This spring, I have planned to introduce myself and further discuss these and other issues. Several of my neighbors have also discussed interest in placing the electrical wires along the road underground - a costly project in which we would gladly participate. There may be other items that others have expressed that could dove-tail with such project - former Park Manager Macintosh had brought up the idea of a side-path to the road.

After noticing the change in the sign restricting non-commercial use of the town ramp at Kettle Cove and realizing that the Harbor Commission may propose other significant changes to the area, I am reaching out to you today. I plan to attend the Harbor Commission meeting tomorrow evening and hope to convene a meeting to discuss these other related issues with you and the State in the near future.

Sincerely,

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From: ILYA FLEISHMAN <iif1@msn.com>
Sent: Monday, December 12, 2016 12:38 PM

To: ILYA FLEISHMAN; al@steelguy.com; kathyberinger@gmail.com; Tara Bucci; cbulsa@maine.rr.com; caper42@gmail.com; grandpacap@yahoo.com; john@theadetrade.net; nancy@jadeintegratedhealth.com; kcoker@maine.rr.com; caper38c@gmail.com; richd06492@gmail.com; daniel.desimone@yahoo.com; cbdoucette@gmail.com; janedoyle1@me.com; kdoyle@taskstream.com; dougdrans@mac.com; jduddy@maine.rr.com; mduddy@krz.com; aledwards@gmail.com; eganhill@gmail.com; ida_goscinski@hotmail.com; melora.gregory@icloud.com; danharriman@hotmail.com; jhuebene@maine.rr.com; donkennel@gmail.com; rdlew@aol.com; lobosco@maine.rr.com; loboscoc@maine.rr.com; timothylynney@msn.com; ben.lydon7@gmail.com; tlydon1@maine.rr.com; danielmatusko@gmail.com; k2b2m215@aol.com; pjmulin@maine.rr.com; chadjackie@aol.com; tjoconnell52@gmail.com; dickomeara@maine.rr.com; forzel@gmail.com; sherico100@gmail.com; markpendarvis@gmail.com; susharksie@aol.com; margueriteprentice@gmail.com; janicereale@gmail.com; maineandny@yahoo.com; rriker@maine.rr.com; sriouxx@maine.rr.com; wrobin5626@aol.com; susan.samberg@gmail.com; scontras@maine.edu; robynshaw13@icloud.com; res@maine.rr.com; lynslack@maine.rr.com; ctaintor@nhdlaw.com; mecw@maine.rr.com; scott@irvings.name; nancy@irvings.name; anneinmaine@gmail.com; ddussaul@maine.rr.com; rickbarkhuff@yahoo.com; Michael Connell
Cc: Michael McGovern; Shoener, Kurt; kim@commondreams.org; Rebecca Millett
Subject: Kettle Cove Rd Embankment

Dear Neighbors,

I hope that everyone is enjoying their holiday season so far and that the new year will find everyone well.

I would like to report some of the latest events related to our local state parks since John and my meeting with Park Manager Kurt Shoener and Biologist Joe Wiley. As I reported, Joe will be suppressing tree growth and the invasive bamboo in the thicket behind Crescent Beach this coming year.

As it seemed we were 'on-the-role', I brought up a couple of other projects with the Town and State that have been casually discussed amongst neighbors.

I indicated to Mike McGovern that folks along Kettle Cove road would love to see the wires put underground. Mike said that he would ask the town's engineer to get a cost estimate for such a project. I will further discuss the idea with Mike's successor when he takes office.

I also mentioned that the rip-rapped embankment that holds Kettle Cove Road above Crescent Beach has been and continues to fail. Mike met with Kurt and engineers from the State about it. The embankment and road is in the Town's jurisdiction and responsibility, while the beach is owned by the State. I have been requested to make a formal proposal to the Town for such project. I would like to present my idea to you for input first and then submit it to the Town.

In the past, bulkheads (a vertical retaining wall) were typically used for shoreline protection. They are expensive to build in today's market, have little or no habitat value, and often catastrophically fail over time. The engineering solution typically employed today is a revetment. A revetment is not a pile of stones dumped down a bank; it is a carefully laid integrated stone structure that slopes up from the water's edge. The structure is elastic and settles and shifts over time without failing. The energy of the waves dissipates as the water moves up the structure so that there is no undercutting of the bank or high impact that causes structural failure.

I am proposing a design for this location that builds out from the existing embankment. The top 3 feet of drop from the road is a gently sloped 12 feet wide grass strip along the road. This area is above the wave impacted zone, but the gentle slope allows any wave action to wash up on it without erosion. This strip is also a useful

area, relieves the necessity for a guard rail, and can be planted with other soil retaining plants such as the native switch grass for naturalizing the aesthetics. Below that strip begins the revetment. The armor stones are carefully placed together so that the outside surface is relatively smooth. Large rock slabs are 'chinked' together with smaller stones to fill the gaps and secure the surface. These structures, when gently sloped, can be traversed so that the shoreline can be walked even at high tide. The revetment would begin at the beach access ramp with a lower profile (as the beach's elevation is higher) and tie into the remaining intact section of beautifully laid ledge bulkhead from the 1950's near the headland. A widened concrete with granite edged sidewalk is also proposed along the road. Discussion on relocating the existing beach access ramp farther up Kettle Cove Road can also be considered at this time. It is very important that the stone sourced (some of what's there can be reused) be aesthetically consistent with the local ledge material to maintain the park's natural character even with such a large structure.

I am sure that there is available funding sources for such a project. Projects that protect public infrastructure and public water access generally get a high score from Coastal Zone Management grants and other government sources. I also believe it appropriate for the Town to prioritize some efforts at our end of the neighborhood - it's not Shore Road, but we still don't want it to wash away.

Please review the attached conceptual design drawings I prepared. We can discuss any issues on this forum, or we can call a neighborhood presentation and meeting next year.

Thank you for considering these ideas,

Ilya

100 FEET

PLAN DRAWINGS

POSSIBLE ACCESS RELOCATION

EXPOSED BEACH

PROPOSED 6' WIDE CONCRETE W/ GRANITE CURB SIDEWALK
PROPOSED 12' WIDE LAWN W/ NATIVE GRASS STRIP

KETTLE COVE

CROSS SECTION (SEE ILLUSTRATION)

SEAL COVE

PROPOSED STONE RETAINMENT

EXISTING STONE BULWARK / TOE PROTECTION
EXISTING GRASS STRIP

PROPOSED STONE RETAINMENT

EXISTING NATURAL LEDGE

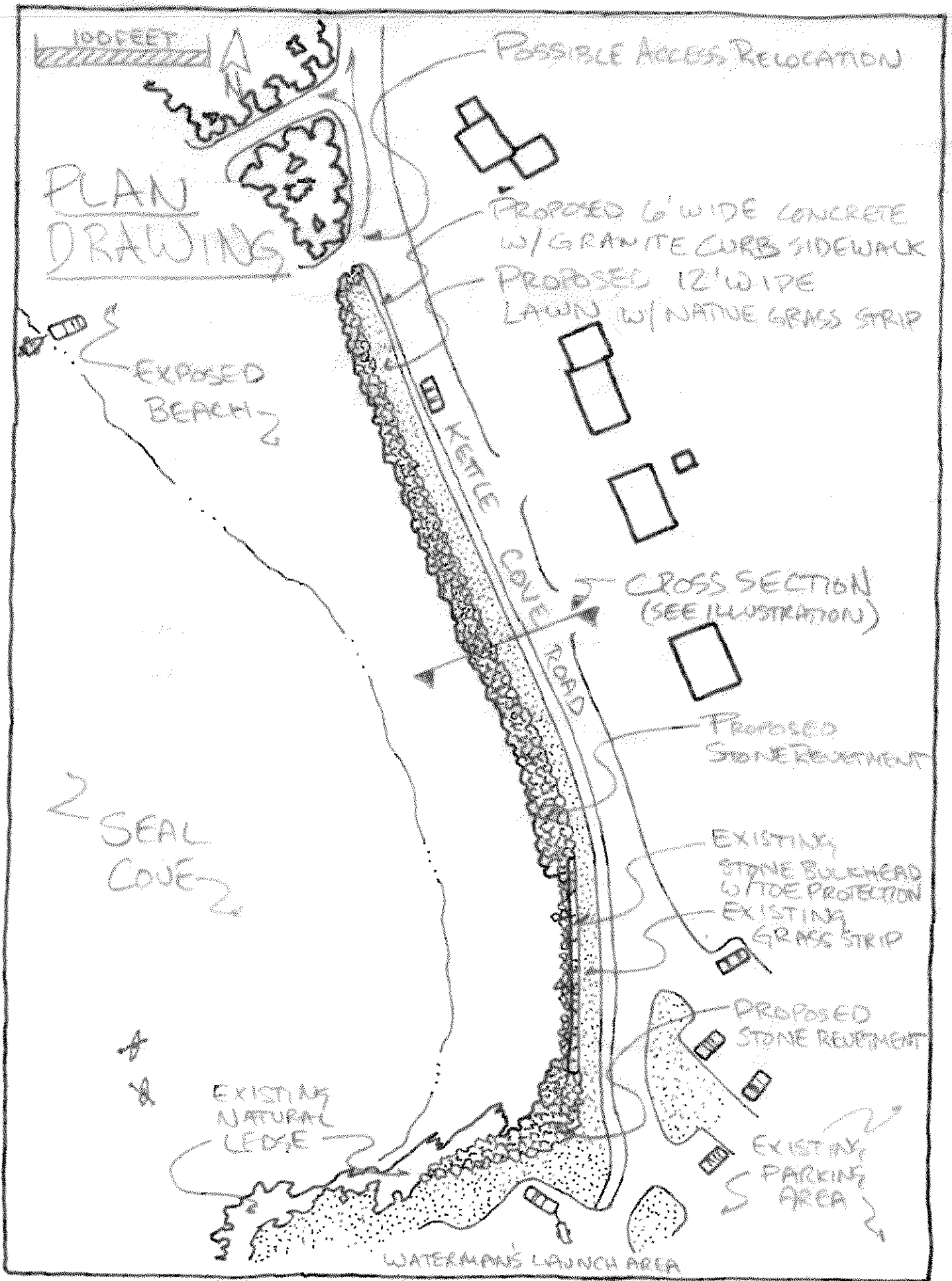
EXISTING PARKING AREA

WATERMAN'S LAUNCH AREA

TOWN OF

KETTLE COVE

PREPARED BY:



CROSS SECTION THROUGH PROPOSED REPAIRMENT

